Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-12 (canceled).

13. (previously presented) A polymer mixture containing at least one synthetic first polymer P(i) and at least one second polymer P(j),

wherein the first polymer P(i) has a degree of polymerisation DP(P(i)) > 500 and at least one type of crystallisable sequences A having a degree of polymerisation DPs(P(i)) of these sequences > 20,

wherein the second polymer P(j) is made up of the same monomer units as the sequences A of P(i) and the degree of polymerisation DP(P(j)) of P(j) is 20 < DP(P(j)) < 500,

wherein the polymer mixture comprises a molecularly dispersed mixture containing P(i), and P(j) forms a network under heterocrystallisation,

wherein, under comparable processing conditions of P(i) and of P(i) + P(j), the quotient of the modulus of elasticity E(i, j) of P(i) + P(j) and the modulus of elasticity E(i) of P(i), E(i, j)/E(i) is >1.1 and <4

wherein P(i) or the sequences A of P(i) comprises a polyolefin selected from the group consisting of a polypropylene, polyethylene, VLDPE, LDPE, LLDPE, HDPE, HMMPE, UHMWPE and mixtures thereof, and

wherein P(j) is selected from the group consisting of n-alkanes C_nH_{2n+2} ; isoalkanes C_n ; cyclic alkanes C_nH_{2n} ; polyethylene wax; paraffins and paraffin wax of mineral origin such as macrocrystalline, intermediate or

microcrystalline paraffins, brittle, ductile, elastic or plastic microcrystalline paraffins; paraffins and paraffin wax of synthetic origin; hyper-branched alpha olefins; polypropylene wax and mixtures thereof.

- 14. (previously presented) The polymer mixture according to
 claim 13, wherein under comparable processing conditions of
 P(i) and of P(i) + P(j) the quotient of the yield stress
 sy(i, j) of P(i) + P(j) and the yield stress sy(i) of P(j),
 sy(i, j)/sy(i) is >1.1 and <3.0.</pre>
- 15. (previously presented) The polymer mixtures of claim 14, wherein E(i,j) is >1.3, sy(i, j) is > 1.2 and eb (i,j) is > 1.03.
- 16. (previously presented) The polymer mixtures of claim 14,
 wherein E(i,j) is >1.5, sy(i, j) is > 1.3 and eb (i,j) is >
 1.05.
- 17. (previously presented) The polymer mixtures of claim 14, wherein E(i,j) is >2.0, sy(i,j) is > 1.5 and eb (i,j) is > 1.10.
- 18. (previously presented) The polymer mixture according to claim 13, wherein a quotient of the MFI(i, j) of the mixture of P(i) + P(j) and the MFI(i) of P(i), MFI(i, j)/MFI(i) is >1.2 and <500.</p>
- 19. (previously presented) The polymer mixture according to claim 18, wherein the quotient of MFI(i, j) and MFI(i) is >1.5.

- 20. (previously presented) The polymer mixture according to claim 18, wherein the quotient of MFI(i, j) and MFI(i) is >2.0.
- 21. (previously presented) The polymer mixture according to claim 18, wherein the quotient of MFI(i, j) and MFI(i) is >3.0.
- 22. (previously presented) The polymer mixture according to claim 13, wherein under comparable processing conditions of P(i) and of P(i) + P(j), the quotient of the crystallinity K(i, j) of P(i) + P(j) and the crystallinity K(i) of P(i), K(i, j)/K(i) is >1.03 and <3.</p>
- 23. (previously presented) The polymer mixture according to claim 22, wherein the quotient of K(i, j) and K(i) is >1.05.
- 24. (previously presented) The polymer mixture according to claim 22, wherein the quotient of K(i, j) and K(i) is >1.1.
- 25. (previously presented) The polymer mixture according to claim 22, wherein the quotient of K(i, j) and K(i) is >1.2.
- 26. (previously presented) The polymer mixture according to claim 13, wherein the fraction A(j) of P(j) relative to P(i) + P(i) in wt.% is in the range 1 < A(j) < 90.
- 27. (previously presented) The polymer mixture according to
 claim 13, wherein the fraction A(j) of P(j) relative to P(i)
 + P(i) in wt.% is in the range 2 < A(j) < 85.</pre>
- 28. (previously presented) The polymer mixture according to

- claim 13, wherein the fraction A(j) of P(j) relative to P(i) + P(i) in wt.% is in the range 3 < A(j) < 80.
- 29. (previously presented) The polymer mixture according to
 claim 13, wherein the fraction A(j) of P(j) relative to P(i)
 + P(i) in wt.% is in the range 5 < A(j) < 75.</pre>
- 30. (previously presented) The polymer mixture according to claim 13, wherein P(i) has a degree of branching $<3 \times 10^{-2}$, and P(j) has a degree of branching $<5 \times 10^{-2}$.
- 31. (previously presented) The polymer mixture according to claim 13, wherein P(i) has a degree of branching <1 x 10^{-2} , and P(j) has a degree of branching <1 x 10^{-3} .
- 32. (previously presented) The polymer mixture according to claim 13, wherein P(i) has a degree of branching $<5 \times 10^{-3}$, and P(j) has a degree of branching $<1 \times 10^{-3}$.
- 33. (previously presented) The polymer mixture according to claim 13, wherein P(i) has a degree of branching $<1 \times 10^{-3}$, and P(j) has a degree of branching $<1 \times 10^{-4}$.
- 34. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a polydispersivity <30.</p>
- 35. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a polydispersivity <20.</p>
- 36. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a polydispersivity <10.</p>

- 37. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a polydispersivity <5.
- 38. (previously presented) The polymer mixture according to claim 13, wherein P(i) and/or P(j) have long-chain branchings which have a degree of polymerisation >20.
- 39. (previously presented) The polymer mixture according to claim 13, wherein P(i) and/or P(j) have long-chain branchings which have a degree of polymerisation >30.
- 40. (previously presented) The polymer mixture according to claim 13, wherein P(i) and/or P(j) have long-chain branchings which have a degree of polymerisation >40.
- 41. (previously presented) The polymer mixture according to claim 13, wherein P(i) and/or P(j) have long-chain branchings which have a degree of polymerisation >50.
- 42. (cancelled)
- 43. (cancelled)
- 44. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a density in g/cm^3 of >0.9, and a melting or dropping point in °C of >80.
- 45. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a density in g/cm³ of >0.925, and a melting or dropping point in °C of >100.
- 46. (previously presented) The polymer mixture according to

claim 13, wherein P(j) has a density in g/cm^3 of >0.950, and a melting or dropping point in °C of >110.

- 47. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a density in g/cm³ of >0.970, and a melting or dropping point in °C of >120.
- 48. (previously presented) The polymer mixture according to claim 13, wherein P(j) has a density in g/cm³ of >0.980, and a melting or dropping point in °C of >125.
- 49. (previously presented) The polymer mixture according to claim 13, wherein the polymer mixture in the form of a thermoplastic melt is prepared by means of a dispersively and distributively acting mixing system, especially by means of a double-screw extruder or a single-screw extruder with mixing section or a Buss-Ko kneader and optionally after preparation is present in the form of granules, pellets, powder, macro- or micro-fibres, as film, casting, continuous casting, extrudate, thermo-shaped part and the like.
- 50. (previously presented) The polymer mixture according to claim 13, further comprising a swelling agent for at least one of P(i) and P(j).
- 51. (previously presented) The polymer mixture of claim 14, wherein, if there is a fraction A(j) of P(j) relative to P(i) + P(i) in wt.% within the range 1 < A(j) < 15, the quotient of the breaking elongation eb(i, j) of P(i) + P(j) and the breaking elongation eb(i) of P(i), eb(i, j)/eb(i) is >1.01 and <1.5.</p>

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